

PROXY PLATFORM INTEGRATION SYSTEM

BACKGROUND OF THE INVENTION

TECHNICAL FIELD

The invention relates generally to the purchase of products over the internet and, more particularly, is directed to an apparatus and method for integrating options and services offered by a service provider onto a merchant website.

DESCRIPTION OF THE PRIOR ART

The World Wide Web (Web) is part of a global computer network known as the Internet. Scientists and academicians initially developed and used the Internet to share information and collaborate. The Web functions as an object based multimedia system. It allows for the creation, storage and delivery of multimedia objects. Recently, on-line service providers, such as Microsoft Network, CompuServe, Prodigy and America Online, have linked to the Web. This enables their customers to access a variety of products and services available from independent content providers and other Web users. For

example, a typical customer can access electronic mail, news services, travel services and online stores and malls on the Web.

The global penetration of the Internet provides merchants with the capability to merchandise their products to substantial shopping audiences using an online merchant system. Online merchant systems enable merchants to creatively display and describe their products to shoppers using Web pages. Merchants can layout and display Web pages having content such as, text, pictures, sound and video, using HyperText Markup Language (HTML). Web shoppers, in turn, access a merchant's Web page using a browser, such as Microsoft Explorer or Netscape Navigator, installed on a client connected to the Web through an online service provider, such as the Microsoft Network or America OnLine. The browser interprets the HTML to format and display the merchant's page for the shopper. The online merchant system likewise enables shoppers to browse through a merchant's store to identify products of interest, to obtain specific product information and to electronically purchase products after reviewing product information.

A problem with commerce over the Internet is that the customer generally must type in and transmit a plethora of information, including confidential

financial information, each time the customer wishes to purchase something from a merchant. The type and form of such information varies from merchant to merchant, and each merchant typically has a customized electronic order form. This is a hassle for the customer. It also requires confidential
5 information to be placed at risk each time such information is transmitted to a
n e w m e r c h a n t .

Another problem with commerce over the Internet is the lack of standards and integration for conducting digital commerce. Creating a virtual store often is
10 expensive and time consuming because merchants must create custom systems for selling their merchandise and making sure they obtain adequate information and payment from customers.

The recent proliferation of client-server based distributed systems has led to
15 the development of numerous server applications, located on server computer systems, that interact with client applications, located on client computer systems. For example, one recently developed client application is a cyber wallet, which contains financial instruments in electronic form, such as electronic cash, electronic debit cards or electronic credit cards. An electronic
20 wallet typically resides on a client computer system, and performs financial

transactions, such as purchases, by communicating with a server application on a server computer system. For example, a user on a client computer system might decide to purchase software from a server computer system that belongs to a software vendor. Protocols such as the Secure Electronic

5 Transactions (SET) protocol and the Open Trading Protocol (OTP) enable the server computer system to receive a payment for the software from an electronic wallet on the client computer system. Using these protocols, this payment is automatically deducted from an account linked to the electronic wallet on the client computer system, and is automatically credited to an account linked to an application on the server computer system.

One problem with many existing server-based applications, as well as with protocols such as SET and OTP, is that they are designed to interact with a client application that resides on a client computer system. Locating an

15 application, such as an electronic wallet, on a client computer system has certain disadvantages. First, an owner of the client application may want to use the client application from a number of different client computer systems.

In this case, if the client application is tied to a particular client computer system, the owner of the client application cannot access the client application

20 from another client computer system. Second, installing a client application,

such as a wallet, on a client computer system can take up storage space on the client computer system and may require additional maintenance on the client computer system to update the client application, for example. Additionally, retrieving code from a server computer system can incur a long
5 delay in downloading the code from the server computer system.

Electronic shopping and merchandising system, U.S. Patent No. 5,897,622, Blinn, April 27, 1999 discloses a merchant system that includes a dynamic page generator, a configurable order processing module and a database
10 module capable of retrieving data from the database without regard to its schema. The system enables merchants to create electronic orders which are easily adaptable for different sales situations. While this invention discloses improvements to make the modification of a website easier, the system does not disclose how it could be integrated with other systems.

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Public network merchandising system, U.S. Patent No, 5,825,881, Colvin, Sr., October 20, 1998 discloses a system for conducting commerce over a large public network such as the Internet where the system facilitates communications between a merchant, a customer, and a bank or credit card
20 processor by using a cyber wallet. However, while a cyber wallet is disclosed,

no teaching is disclosed as to how to integrate such a cyber wallet across multiple non-integrated websites.

What is needed is a system that integrates a cyber wallet with any client computer system without the need for high-level integration, and where the cyber wallet is not located on a client computer system. What is needed is a system that can deliver the benefits of a highly integrated system in a shorter period of time.

SUMMARY OF THE INVENTION

A method and system is herein disclosed for adding and/or removing functionality and elements on a website through a proxy platform by which a user views the website. The proxy platform acts as an intermediate website that alters the appearance of another website. The proxy platform adds, removes or rearranges elements on the other website. The proxy platform adds functional elements such as a button that can interact with the website.

A checkout button on the proxy platform provides automatic form filling by accessing a cyber wallet and relaying purchase information to a merchant



website. Each piece of information is designated properly and entered onto the merchant's purchase form.

A proxy platform is created by parsing a website, and mapping the elements of the website. Rules are created that designate how the elements of the website are to be manipulated.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a flowchart illustrating a preferred embodiment of the interaction between a user, proxy platform and a merchant website according to the invention;

Figures 2A, 2B, 2C and 2D are diagrams illustrating a sequence of web pages

that are part of an online purchase process;

Figures 3A, 3B, 3C and 3D are diagrams illustrating a sequence of web pages that are part of an online purchase process viewed through a proxy platform according to the invention;

Figures 4A, 4B and 4C are diagrams illustrating a website viewed through a computer screen, a PDA, and through a proxy platform on a PDA, respectively, according to the invention; and

- 5 Figure 5 is a diagram illustrating a help bar added onto a website through a proxy platform according to the invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

- 10 Figure 1 is a diagram of the several interrelated elements that combine to produce a preferred embodiment of the invention. A user 110 accesses his account information or wallet data 120 by logging on to the internet through an internet service provider (ISP) portal 130, such as America Online by America Online Inc. of Vienna, VA, or by logging on to the Internet and then logging
- 15 onto a web site 140 that has cyber wallet data. If the user connects to the Internet through the ISP portal 130, then her wallet information is automatically accessed at the logon time.

A cyber wallet 120 uses a public key encryption system that secures credit card information and details about a purchase in a secure electronic envelope for distribution between a merchant, to the bank, and back. When a consumer/user makes a purchase over the Internet and sends the transaction to a merchant, the merchant, automatically, through its software, adds transactional information to the purchase and then forwards it to a cyber wallet provider, where the transaction is reformatted and sent to the merchant's bank. The merchant's bank then sends the authorization request to the issuing bank through the card associations. Once the issuing bank approves the purchase, the transaction is then sent back through the cyber wallet provider server for secure encryption and on to the merchant, who sends the consumer an electronic receipt and fills the order. The whole process takes about 15 to 20 seconds. The consumer receives an electronic receipt and the order is sent out by mail or other ground or air delivery.

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A user accesses a merchant site 150 through the proxy platform 160. The proxy platform is an overlay platform or website by which other websites are viewed. The proxy platform is an interface that makes adjustments as to how a website is viewed. The proxy platform adds, removes, or rearranges the

appearance of website elements. Examples of such website elements are banner ads, advertisements, adult material, buttons, checkboxes, sidebars and user chosen elements.

5 In a preferred embodiment, a website's checkout page is altered such that a checkout button is added that accesses the user's cyber wallet. Figures 2A-2D illustrate a series of web pages that are part of a non-proxied checkout process. Figure 2A illustrates a first page in the website checkout process. The website purchase form 210 shows the product to be purchased, an S3
10 video card 211, the quantity selected 212, and the price 213. To move to the shipping page, the user selects the checkout button 214. The user may also continue shopping by pressing the continue shopping button 215.

Figure 2B illustrates the shipping web page 220 where the user fills in
15 shipping information, such as, name 221, street 222, city 223 and state 224. After filling in the shipping information, the user pushes the next button 225 to move to the billing information web page.



Figure 2C illustrates the billing page 230 where the user fills in billing information, such as, name 231, street 232, city 233, state 234, credit card type 235, credit card number 236, and expiration date 237. After filling in the billing information, the user selects the next button 238, to bring him to the complete order page 240 as shown in Figure 2D. The complete order page 240 asks the user if he is sure about his purchase 241. If the user is sure he then presses the complete order button 242. The total cost of the purchase is also displayed 243. The user is then brought to a confirmation page (not shown) and/or is sent a confirmation email.

Figures 3A-3D illustrate the same series of website pages, viewed through a proxy platform. In Figure 3A, the proxy platform adds a quick checkout button 316 that provides all the purchase information automatically from a cyber wallet, and completes the checkout process. The pressing of the checkout button 316 initiates a query of cyber wallet information. Typically the cyber wallet information is stored so that it is easily accessible by the proxy platform, for example, within the same system. After the purchase information is entered onto the merchant website, the merchant's own checkout process is

initiated. The merchant's checkout process enters the information onto their database, and also uses their system to approve credit card purchases.

Figure 3B illustrates the shipping web page 220 as viewed through the proxy platform. The proxy platform has taken the information from the user's cyber wallet and filled in the fields 321, 322, 323, 324 corresponding to the name 221, street 222, city 223 and state 224, respectively. To move to the billing web page, the user presses the next button 225.

Similarly, in Figure 3C, the billing fields, 331, 332, 333, 334, 335, 336, 337 have been filled in by the proxy platform corresponding to the name 231, street 232, city 233, state 234, credit card type 235, credit card number 236, and expiration date 237. To move to the complete order screen 240, the user presses the next button 238. The complete order screen is the same as the non-proxied complete order screen, and the user completes the order by pressing the complete order button 242.

The proxy platform is created and maintained by analyzing the merchant website, creating a merchant proxy platform profile 170, and maintaining and updating the proxy profile.

5 ANALYZING THE MERCHANT WEBSITE

In a preferred embodiment, analyzing the merchant website involves parsing the website, more particularly the checkout process, to determine the rules to create, to form-fill the checkout pages. Each web page is cataloged by region and mapped by fields. Most checkout pages are similar, but some require special handling. Once the information is captured, it is made available for inspection and modification to create rules that define how the page is manipulated.

CREATING A MERCHANT'S PROXY PLATFORM PROFILE

15 Once the merchant site is analyzed for checkout flow and field mapping, the information is used to create the merchant's proxy platform profile. Proxy platform profiles are extensible markup language (XML) text files created with a text editor. Each merchant that participates in the proxy platform has a

profile residing in the proxy server that defines how the proxy platform interacts with the existing merchant checkout process.

Unique proxy profiles are written for each merchant in the system in order to
5 fire specific rules on specific pages. These rules include button splicing and mapping merchant form fields to a user's cyber wallet data. Rewriting the original website URL to the proxy URL, handling of the redirection, and the handling of cookies are automatically processed. Tags identify regions of the page that will be changed.

10 A master XML file lists all the merchant sites that are proxy platform enabled and maps each website to their profile. The master XML file contains the domain name of the merchant sites and a reference to the rule files to be called when the proxy encounters that particular domain or domains. Each
15 profile has proxy and reqproxy rules. These rules apply to the merchant domain. A proxy rule fires on pages that come from the merchant to the user. The reqproxy rules fires when a request comes from the user to the merchant

site. The master XML file is read when the proxy platform is initialized. Each profile of a merchant website contains both proxy and request rules.

Proxy rules manipulate typical responses containing HTML. They include:

- 5 1. Rules for form filling, such as mapping cyber wallet variables to elements in the forms of the target page. These are identified by form filling tags.
2. Rules for manipulating client-side Javascript (discussed *infra*).
3. Rules for splicing buttons into pages.
4. Rules for supporting cyber wallet order placements.
- 10 5. Rules for supporting a help sidebar (discussed *infra*).

Request rules are used for manipulating requests, such as converting encrypted credit card numbers to clear credit card numbers. The proxy platform does not return a user's credit card number from the cyber wallet to the user because it is possible that there will be unauthorized access to a user's account. A request rule removes the masked credit card number and replaces it with the full credit card number. The profile_req.XML file contains the request rule for the merchant profiles. This rule fires when a request comes from the user to the merchant and tells the proxy what to do with the request.

20 request.

Profile.XML files contain specific rules for specific merchants. Each rule consists of:

1. A request or response page identifier that identifies the specific merchant page. This can but is not always, a URL.
2. A path through a simple document object model that identifies the page element of interest, also known as a region.
3. An action to be performed on a region.

Firing rules tell the proxy what action to perform on a particular merchant page. URL declarations are used in conjunction with a rule to tell the proxy how to recognize a merchant's URL page. When the proxy gets a request for a merchant page, it matches the URL against the entries contained in a hash table. It performs the match depending on the URL declaration in the merchant profile. Examples of URL declarations are exact, noargs and globexpr.

Exact declarations are used to identify a merchant web page and to fire rules by exactly matching a hash table entry with the web page URL. Noargs match and disregards any arguments appended to the URL, allowing the proxy to take

the remaining URL and compare it to the hash table for a match. Globexpr match provides the same matching used by Unix shells to support filename wildcarding, namely, the use of global expressions as a variable to use in matching.

5

Post URL rules are used for web pages that have single URL's which generate successive pages with query strings appended to the URL. Post URL rules fire on the subsequent pages generated this way.

10

Spliced buttons are typically placed in obvious and logical positions. Proxied checkout buttons are typically placed at the bottom of a web page because a user usually reads information from top to bottom, and thus the placement allows the user to conveniently scroll through a page and then checkout. Form filling buttons are usually spliced into the page code between the opening and closing form tags.

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Form filling rules are needed to map the proxy platform values in the user's cyber wallet, to the corresponding fields on the merchant's checkout forms.

This involves mapping rules for elements contained within the merchant's form. Form filling rules information include, the URL of the merchant checkout page, the tag address of the field on the merchant checkout form, the name of the field on the merchant checkout form, the type and sub-type of the field on the merchant checkout form, the mapping type to be used by the proxy platform to fill this field, the cyber wallet field name used to fill the field and mapping specific rules. Examples of mappings are matching to text, radio mapping and select mapping.

Matching to text comprises rules that define mapping a text field on the checkout form to a corresponding cyber wallet value. It is also contemplated that a hard coded value may be used to fill in a value on the merchant website.

Radio mapping rules define mapping between a radio field on a merchant checkout form to the cyber wallet field values. Mapping rules define the mapping between a selected field on a merchant checkout form to the corresponding cyber wallet field value.

Partial value rules provide flexibility when a website field name doesn't fully match the cyber wallet field value, but partially matches it. Partial value rules look to match only a substring value between the merchant web page and the cyber wallet.

Select mapping rules define the mapping between a selected field on a merchant checkout form to the corresponding cyber wallet value. Checkbox mapping rules define the mapping between a checkbox field on a merchant web page to cyber wallet field values. Checkbox mapping also bridges checkbox selections made on a proxy platform with a merchant web page.

Phone numbers recorded in a cyber wallet do not have to be in any particular form. For example, the number (800) 555-1212, can also be written as 800-555-1212 or 8005551A1A. To remove possible problems, the proxy platform removes non-alpha numeric characters in phone numbers. The proxy platform also translates alphabetic characters into their corresponding numbers.

Placing an order comprises communicating to the cyber wallet the total amount, line items, and the merchant where the user has made the purchase.

The order total is identified by executing a Javascript rule on an incoming response to an incoming total query. The portion of the merchant web page

5 where the order total appears must be correctly identified, typically the last page that appears as part of the purchase process.

MAINTAINING AND UPDATING THE MERCHANT'S PROXY PROFILES

Merchants maintain their own web sites, and they often update and redesign

10 them. If the fields in the merchant checkout forms are changed or rearranged, or the checkout page flow has been altered, the merchant's proxy platform

profile is also changed because changes cause mismatches with the proxy

platform scheme. An autotester 180 is used to check the validity of the proxy

platform information. The auto tester checks the web page to see if any

15 changes have been made, and that the proxy platform commands are still

valid. If there has been a change, then an alert is made in the form of an error

log. The web page is then reparsed, and a new profile is made.

In another embodiment of the invention, the proxy platform dynamically examines all Javascript contained on a profiled website to ensure that the Javascript behaves correctly. Javascript is a programming language that is often used in Internet applications because it provides a more flexible method for interfacing with browsers. When a site provides information in Javascript to the web server, the web server interprets the Javascript to generate instructions that form a web page. The web server then sends the formatted web page to the browser. The web page appears as though it was retrieved from a web site. Use of Javascript by web sites has become more common as Javascript provides such interactive capabilities.

All Javascript contained on the website, whether in-line in the html page, or in a js file, is examined if to see if it's use will interfere with communications between the proxy platform and the website. Example of such use includes write, writeln, location of cookies, and document and window functionality. Each use of Javascript is dynamically rewritten on the fly to guarantee that they behave so as to support the user-to-proxy platform-to-website communication.

One method of rewriting is to rewrite those Javascripts with certain tags, for example, those between the <SCRIPT> tag and the </SCRIPT> tag. Javascript is defined in-line in an HTML tag or by a specific tag or specific tag attribute. When a tag or tag attribute is found, the Javascript is rewritten, for example, the onClick attribute of input tags on a form. Access to document object hierarchy allows full manipulation of the current page. The functions add, remove and get/set HTML attributes are performed in Javascript.

An example of the format looks like the following:

```
<RULE NAME="Victorias_Secret_button_splice">
<URL
MATCHSTYLE="NOARGS"><![CDATA[http://www.victoriassecret.com/cgi-
bin/ncommerce3/Host_Shopbag]]></URL>
<!--
```

An example of selectively rewriting embedded Javascript in tags is rewriting the onClick attribute of input tags in a form as shown in the following:

```
-->
<TAG NAME="FORM" NUMBER="1">
<ACTION>
<TAGJSREWRITE>
```

```

<CHECKTAG NAME="INPUT"/>
<CHECKATTR NAME="onclick"/>
</TAGJSREWRITE>
</ACTION>
5 </TAG>
</RULE>

```

In this example, every INPUT tag with FORM=1 is checked, if one is found and it has an onclick attribute, then the value of the

10 Onclick attribute is rewritten.

Legal values for check tag names include, but are not limited to:

15 A, ABBREV, ACRONYM, ADDRESS, APPLET, AREA, AU, B, BANNER, BASE, BASEFONT, BGSOUND, BIG, BLINK, BLOCKQUOTE, BODY, BR, CAPTION, CENTER, CITE, CODE, COL, COLGROUP, CREDIT, DD, DEL, DFN, DIR, DIV, DL, DT, EM, EMBED, FIG, FN, FONT, FORM, FRAME, FRAMESET, H1, H2, H3, H4, H5, H6, HEAD, HTML, HR, I, IMG, INPUT, INS, ISINDEX, KBD, LANG, LH, LI, LINK, MAP, MARQUEE, MENU, META, NEXTID, NOBR, NOEMBED, NOFRAME, NOFRAMES, NOTE, OBJECT, OL, OPTION, OVERLAY, P, PARAM, PERSON, PRE, Q, RANGE, S, 20 SAMP, SCRIPT, SELECT, SMALL, SPOT, STRONG, STYLE, SUB, SUP, TAB, TABLE, TBODY, TD, TEXTAREA, TFOOT, TH, THEAD, TITLE, TR, TT, U, UL, VAR, WBR

Legal values for check attribute names include, but are not limited to:

onabort,onblur,onchange,onclick,ondblclick,ondragdrop,onerror,onfocus,onkeydown,onkeypress,onkeyup,onload,onmousedown,onmousemove,onmouseout,onmouseover,onmouseup,onmove,onreset,onresize,onselect,onsubmit,onunload

5

Rewriting across all pages on a website may be necessary, for example, when there is a select menu that uses some Javascript to move to a particular part of the site. Proxy platform tag rewriting instructions are contained in a master .XML file. Javascript rules for the proxy platform are captured within

10 XML files that include the rule address.

The proxy platform introduces global objects with global properties and functions. These global objects include region, pen, and ruleinfo. The pen provides Javascript rules with the ability to insert new HTML into a region. The ruleinfo object provides meta-information about the rule itself, such as, the URL that triggered it and the debugging level.

15

The region object provides access to the HTML captured during rule evaluation. It resembles the document object within client-side Javascript.

20 There are several properties of the region object, such as, tokens which are a

- JSArray of all the tokens within the region, tags which are a JSArray of all the tags within the region, text which are a JSArray of all the text within the region, images which are a JSArray of all images within the region, forms which are a JSArray of all forms within the region and anchors which are a
- 5 JSArray of all anchors within the region.

The pen is a global object that rule authors use to insert HTML. A Javascript rule moves pens around to different locations within a region. HTML is then written at the penned location. Examples of pens are:

- | | | |
|----|-------------------------------|---|
| 10 | moveToAfter (object location) | moves pen after a specified object |
| | moveToBefore | moves pen before a specified object |
| | writeln (string value) | writes string value at current pen position |
| | write (string value) | writes string value at current pen position |

- 15 Before rule execution, the pen is positioned at the end of the captured region.

After a write, the pen is positioned immediately after the just written HTML.

The ruleinfo object is a global object used to obtain information about the current rule invocation. This includes for example, the URL that triggered the rule and the debugging level for the rule. Examples of ruleinfo objects are:

URL	the URL that triggered the rule
5 checkingon	rule debugging/checking is on (Boolean)
checkinglevel	checking level, meaningful only if checkingon=true. Higher levels imply more debugging output

In another embodiment of the invention, the proxy platform is used to offer or deny user privileges. In the environment of network, a network user logs on using a user id and a password. The user id identifies what privileges the user has. The information is used to select a proxy profile that corresponds to these privileges. The buttons available through the proxy platform correspond to their privileges

For example, a mailroom clerk would not have an employee salary information button that a human resources person would. With that button a human resources person can access a link to files regarding human resource matters. It is also contemplated that this embodiment can be used over other communication mediums, for example, the Internet and infrared communication between PDA's.

In another embodiment of the invention, the proxy platform is used to reformat the appearance of a web site, such that website viewing is user friendly for cellular phone and PDA users. Web sites are typically designed to be viewed
5 by monitors of fourteen inches in diagonal length, or larger. However, the viewing size of a cell phone is typically one inch, and PDA's four inches. Also, the screen dimensions of cell phones and PDA's are different than the 4x3 dimensions of a computer monitor. Thus, the proxy platform reformats the web site so that web site articles, such as, text, images, tags, tokens, etc, are placed in an easily viewed manner. Figure 4A illustrates a web site as viewed
10 on a computer screen 410. Note that the pictures 412 lie next to the text 411. Figure 4B illustrates the same web page as viewed through a PDA 420. The viewing area of the PDA is smaller than the monitor, such that the whole web page cannot be viewed without scrolling up and down 421, and left and right
15 422.

Figure 4C illustrates the same website as viewed through the proxy platform. The proxy platform moves the pictures 412 from the side of the text 411, to below the text 411, so that a user need only scroll up and down 421 to view
20 the website.

In another embodiment of the invention a help sidebar on the proxy platform helps a user to understand what the proxy platform is doing for them and what they should do on the merchant web site to take advantage of the proxy platform. The sidebar 510 is placed, seemingly embedded within the web page 500 as shown in Fig. 5. Opening and closing the sidebar is actuated by opening and closing an embedded sidebar function.

In another embodiment of the invention, wallet information is maintained on merchant websites. The wallet information entered at a merchant website is then recorded at the proxy platform. Any changes of wallet information at the merchant website are also recorded at the proxy platform. Also, any changes to wallet information made at the proxy platform are sent to the merchant website. Periodic checks are made between the merchant website and the proxy platform to see if the wallet information matches up. If there are differences, then the file with the latest update is considered the current valid wallet information.

Although the invention is described herein with reference to the preferred embodiment, one skilled in the art will readily appreciate that other

1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683</
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